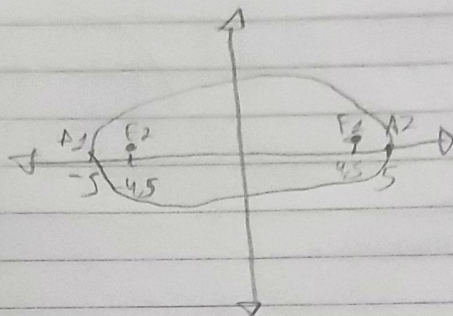


$$\textcircled{1} \frac{x^2}{25} + \frac{y^2}{4} = 1 \quad a=5 \quad b=2$$

$$A_1(-5,0) \quad A_2(5,0) \quad c = \sqrt{a^2 - b^2} = \sqrt{25 - 4} = \sqrt{21}$$

$$F_1(\sqrt{21},0) \quad F_2(-\sqrt{21},0)$$

$$e = \frac{c}{a} = \frac{\sqrt{21}}{5}$$



$$\textcircled{2} \frac{25x^2}{100} + \frac{4y^2}{100} = \frac{100}{100}$$

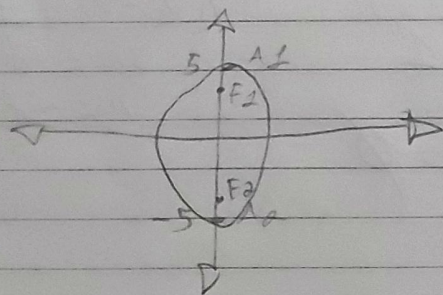
$$\frac{x^2}{4} + \frac{y^2}{25} = 1$$

$$a=5 \quad b=2$$

$$A_1(0,5) \quad A_2(0,-5)$$

$$F_1(0,\sqrt{21}) \quad F_2(0,-\sqrt{21})$$

$$c = \sqrt{4 - 25} = \sqrt{21} \quad e = \frac{\sqrt{21}}{2}$$



$$\textcircled{3} \frac{9x^2}{244} + \frac{16y^2}{244} - \frac{144}{244} = 0$$

$$\frac{x^2}{16} + \frac{y^2}{9} = 1$$

$$a=4 \quad b=3$$

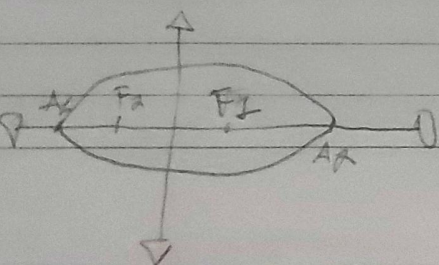
$$V) A_1(-4,0) \quad A_2(4,0)$$

$$F_1(\sqrt{7},0) \quad \sqrt{7} \approx 2,6$$

$$F_2(-\sqrt{7},0)$$

$$c = \sqrt{16 - 9} = \sqrt{7}$$

$$e = \frac{\sqrt{7}}{4}$$



FORON:

$$\textcircled{4} \quad 9x^2 + 5y^2 - 45 = 0$$

$$\frac{9x^2}{45} + \frac{5y^2}{45} = \frac{45}{45}$$

$$\frac{x^2}{5} + \frac{y^2}{9} = 1 \quad a = \sqrt{5}$$

$$b = 3$$

$$A_1(-\sqrt{5}, 0) \quad A_2(\sqrt{5}, 0)$$

$$c = \sqrt{5 - 9} = \sqrt{4}$$

$$\textcircled{4} \notin R$$

$$\textcircled{5} \quad x^2 + 25y^2 = 25$$

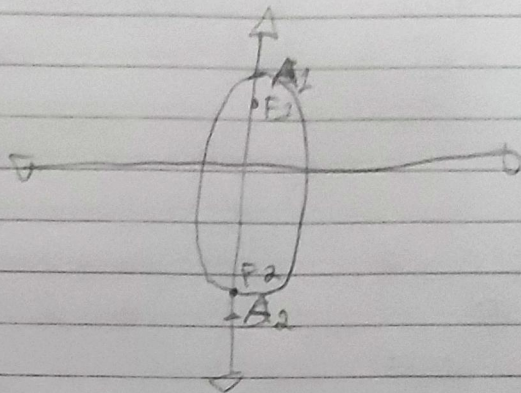
$$\frac{x^2}{25} + \frac{y^2}{1} = 1$$

$$e = \frac{c}{a} \quad c = \sqrt{1 - 25} = \sqrt{24}$$

$$a = 5$$

$$A_1(0, 5) \quad F_1(0, \sqrt{24})$$

$$A_2(0, -5) \quad F_2(0, -\sqrt{24})$$



$$\textcircled{6} \quad 4x^2 + 9y^2 = 25$$

$$\frac{4x^2}{25} + \frac{9y^2}{25} = \frac{25}{25}$$

$$\frac{x^2}{\frac{25}{4}} + \frac{y^2}{\frac{25}{9}} = 1$$

$$a = 5/2$$

$$b = 5/3$$

$$A_1(5/2, 0)$$

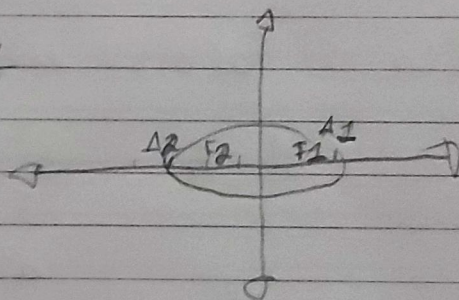
$$A_2(-5/2, 0)$$

$$e = \frac{c}{a} \quad e = \frac{4}{3}$$

$$c = \sqrt{25/9 - 25/4} = \sqrt{\frac{25}{36}}$$

$$F_1(5/2, 0)$$

$$F_2(-5/2, 0)$$



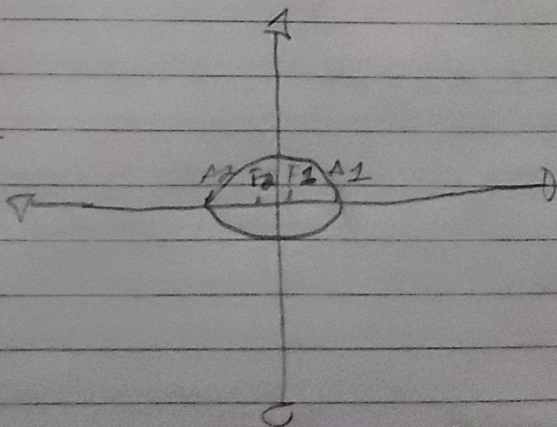
$$\textcircled{7} \quad 4x^2 + y^2 = 1 \quad a = 1$$

$$b = 1/2$$

$$e = \sqrt{1 - \frac{b^2}{a^2}} = \sqrt{\frac{3}{4}} = \frac{\sqrt{3}}{2}$$

$$A_1(1, 0) \quad F_2(\frac{\sqrt{3}}{2}, 0)$$

$$A_2(-1, 0) \quad F_2(-\frac{\sqrt{3}}{2}, 0)$$



$$(8) 4x^2 + 25y^2 = 1$$

$$\frac{x^2}{\frac{1}{4}} + \frac{y^2}{\frac{1}{25}} = 1$$

$$a = 1/2$$

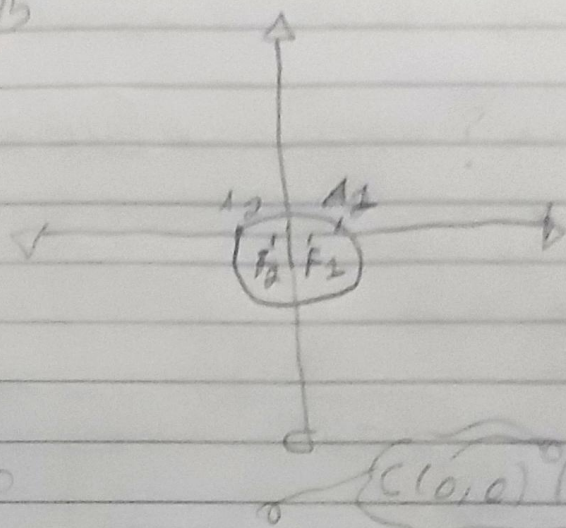
$$b = 1/5$$

$$c = \sqrt{1 - \left(\frac{1/25}{1/4}\right)} = \frac{\sqrt{3}}{2}$$

$$A_1(0, 1/2) \quad F_2(0, \frac{\sqrt{3}}{2})$$

$$A_2(0, -1/2)$$

$$F_2(0, -\frac{\sqrt{3}}{2})$$



$$(12) \frac{10}{2} = 5$$

$$2a = 10$$

$$a = 5$$

$$c = 4$$

$$4^2 = 5^2 - b^2$$

$$16 = 25 - b^2$$

$$b^2 = 25 - 16$$

$$b^2 = 9$$

$$b = 3$$

$$\frac{(x-0)^2}{5^2} + \frac{(y-0)^2}{3^2} = 1$$

$$\frac{x^2}{25} + \frac{y^2}{9} = 1$$

$$C(0,0) \quad (4,0)$$

$$(13) F_1(0, -5) \quad F_2(0, 5) \quad \text{eixo menor} = 10$$

$$\frac{10}{2} = 5$$

$$2b = 10$$

$$c = 5$$

$$5^2 = a^2 - 5^2$$

$$25 = a^2 - 25$$

$$a^2 = 50$$

$$\frac{(x-0)^2}{(5\sqrt{2})^2} + \frac{(y-0)^2}{5^2} = 1$$

$$a = \sqrt{50} = 5\sqrt{2}$$

$$\frac{x^2}{50} + \frac{y^2}{25} = 1$$

$$\frac{x^2}{50} + \frac{y^2}{25} = 1$$